

PFK

PFK1/BN-4H

Ind.M18,NPN-NO+NC,M12 Plug,Nsch-LD

M18 CYLINDRICAL INDUCTIVE SENSORS FOR FOOD AND BEVERAGE APPLICATIONS

OVERVIEW

- AISI 316L (DIN 1.4404) stainless steel housing
- LED status indicator
- IP67 – IP68 – IP69K protection degree
- ATEX models, cat. 3, available on request
- Complete protection against electrical damages
- Standard and long distance models

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	12mm
Operanting distance	0…9,7mm
Standard target	36x36mm FE360
Correction Factor	copper: 0,30 / aluminium: 0,38 / brass: 0,42 / stainless steel: 0,65
Thermal drift of Sr	< 10%

Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 … 20%

Application

Description	M18 standard no-flush mount
Functions	Proximity

Outputs

Output type	NPN
Output Function	NO + NC
Switching frequency	1,5kHz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤ 15mA
Load current	≤ 200mA
Leakage current	≤ 10μA
Output voltage drop	≤ 2V @200mA
Max ripple content	≤ 10%
LED indicators	Yellow LED output state
Time delay before availability	≤ 50ms

Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Dimensions	M18 x 1 / L = 63,1mm
Mounting	Unshielded
Material	AISI316L Stainless Steel
Housing material	AISI316L Stainless Steel
Weight	55g
Connections	M12 Plug
Active Head Material	PPS
Tightening torque	50Nm
Operating temperature	-40°C…+80°C (up to 100°C for short exposure during cleaning process)
Diameter/Dimension	M18

Test/Approvals

Approvals	CE cULus ECOLAB DIVERSY
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27

Degree of protection	IP68, IP69K

Accessories

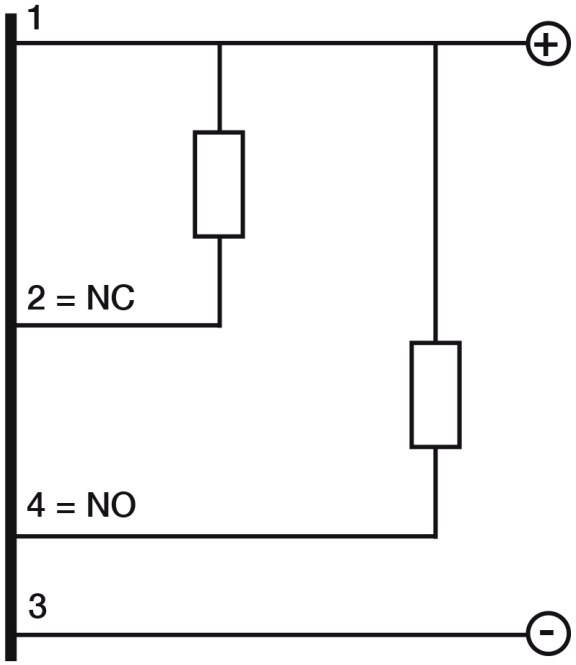
Supplied Accessories	2 nuts M18x1

Generical Data

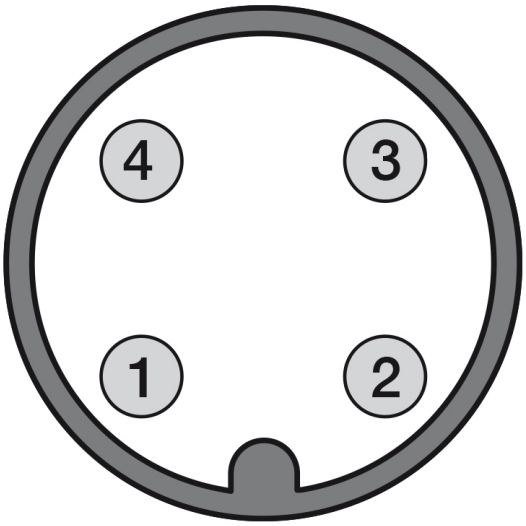
Dimensions	M18 x 1 / L = 63,1mm
Operating Temperature	-40°C…+80°C (up to 100°C for short exposure during cleaning process)
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

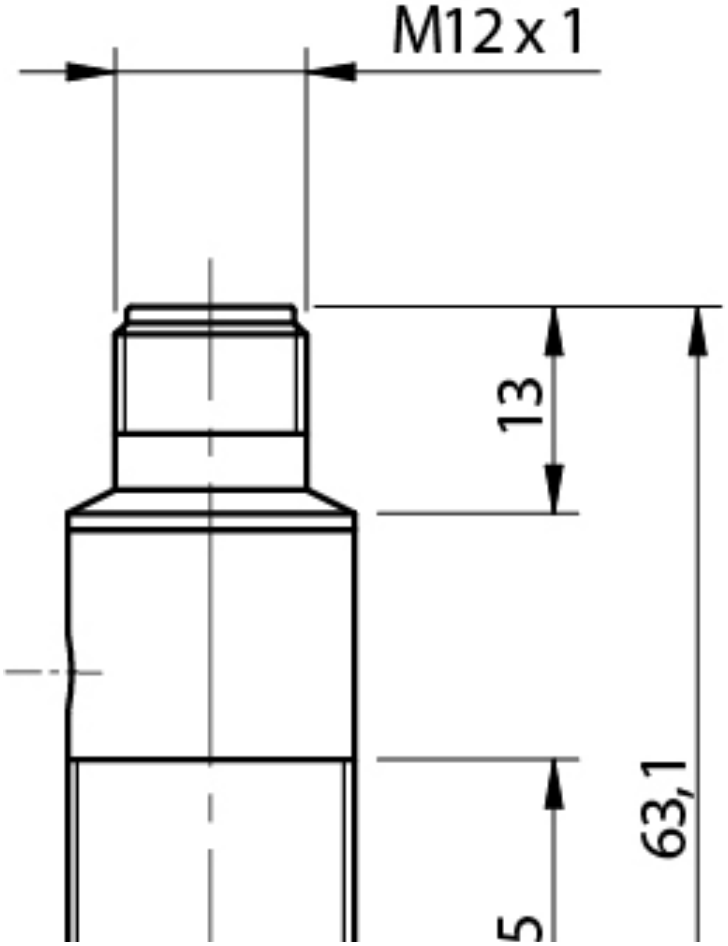


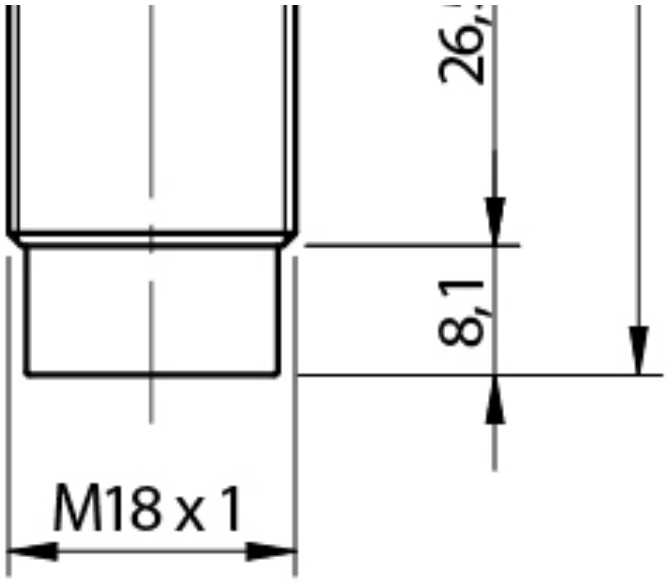
Connector

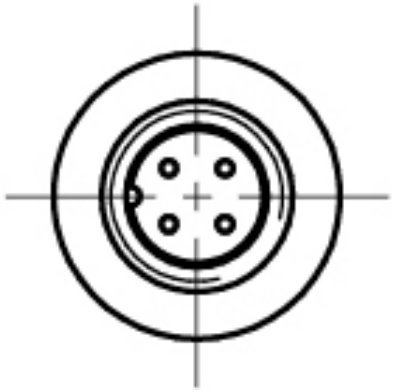


OTHERS

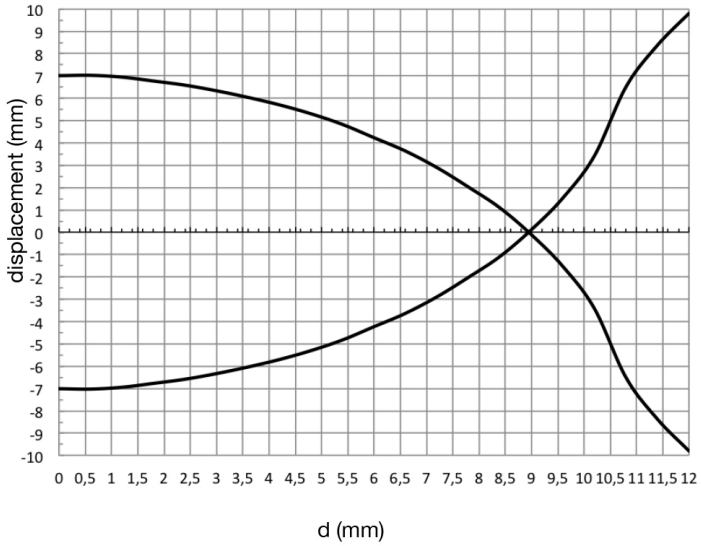
Dimensions



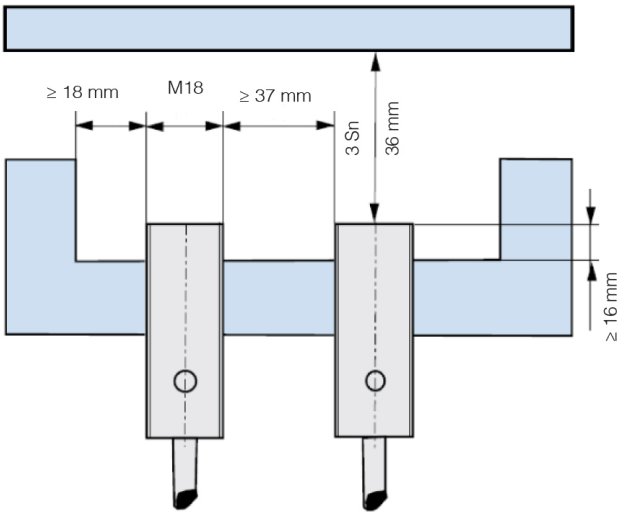




Response curves



Installation



Datasensing S.r.l.
Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

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